

An aerial, black-and-white photograph of a large naval fleet. Numerous warships, including several large aircraft carriers and many smaller destroyers, are visible, moving across the ocean and leaving white wakes behind them. The ships are arranged in a loose formation, with some leading and others following.

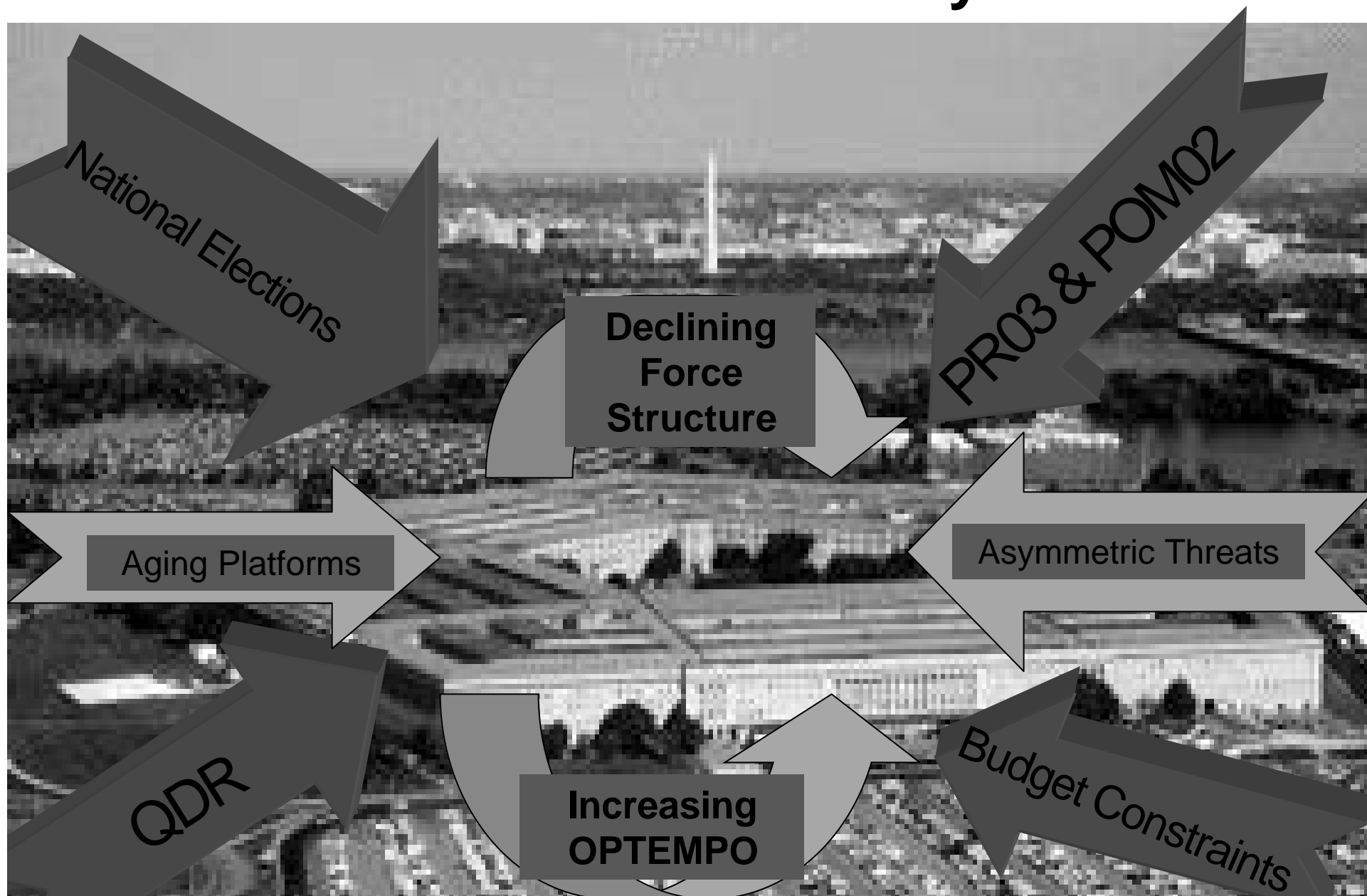
# National Defense Industrial Association

## *EXPEDITIONARY WARFARE- Issues and Challenges*

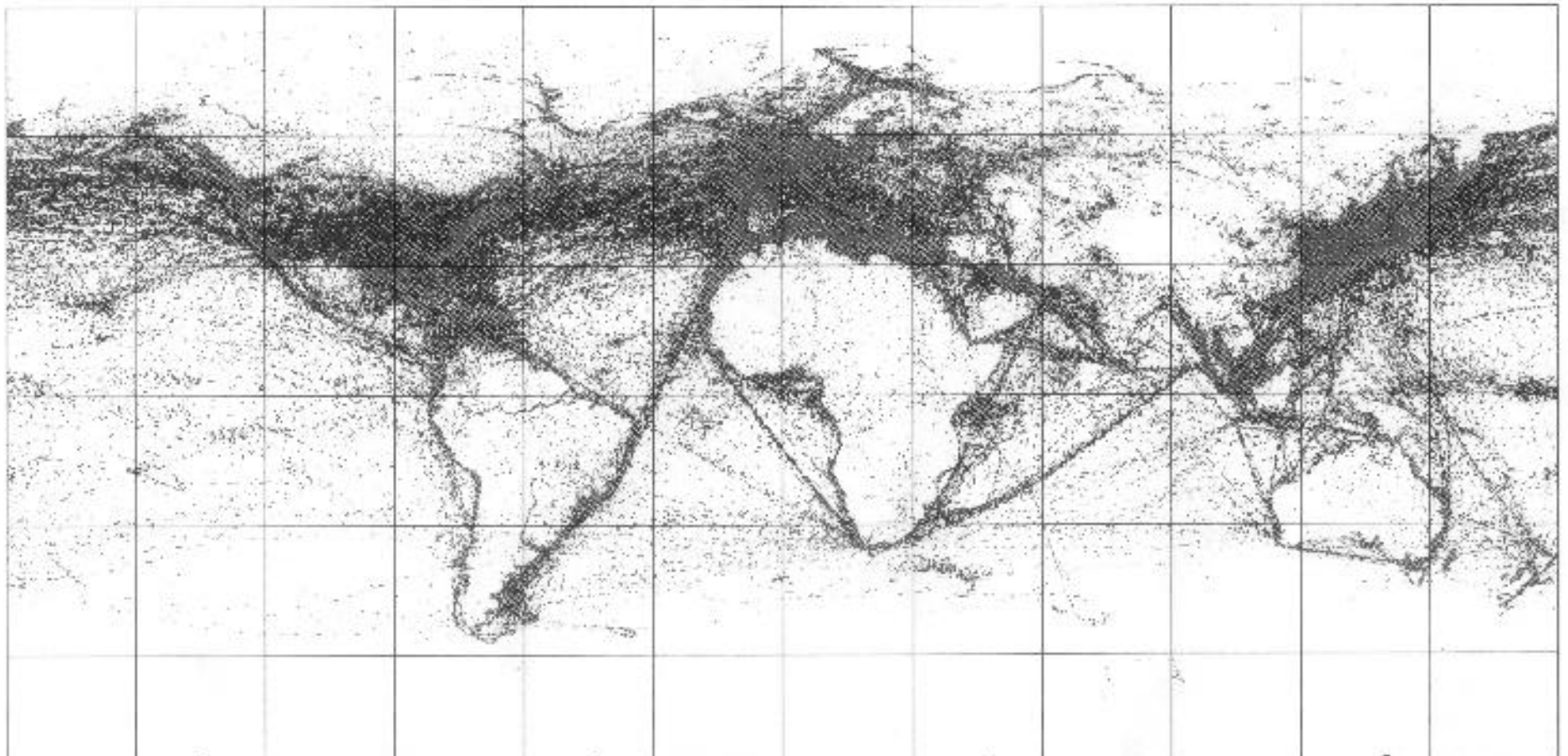
MAJGEN Whitlow, USMC  
DIRECTOR, EXPEDITIONARY WARFARE

([www.exwar.org](http://www.exwar.org))

# Battle of the Beltway



*The World's Oceans Will Remain the Byways of  
the Global Economy in the 21<sup>st</sup> Century*



*Fundamental, Unalterable  
Geography of our World*

# ***"Get Better or Get Beaten"***

1990 - 62 Ships

## ***The ARG of the Future***

2009 - 36 Ships



**LHA/LHD**



**LSD-36**



**LKA-113**



**LPD-1/4**



**LST-1179**

- First Class Warships enable OMFTS and STOM

### **Enhanced Capabilities**

- SEABASING Platforms
- Carry AAV, LCAC, MV-22, VTUAV
- Improved Self Defense
- Improved C4I

**LHD/LHA(R)**



**LSD-41/49**



- More Flexibility
- Reduced Manpower
- Lower cost to operate
- Delivers lift to the right places

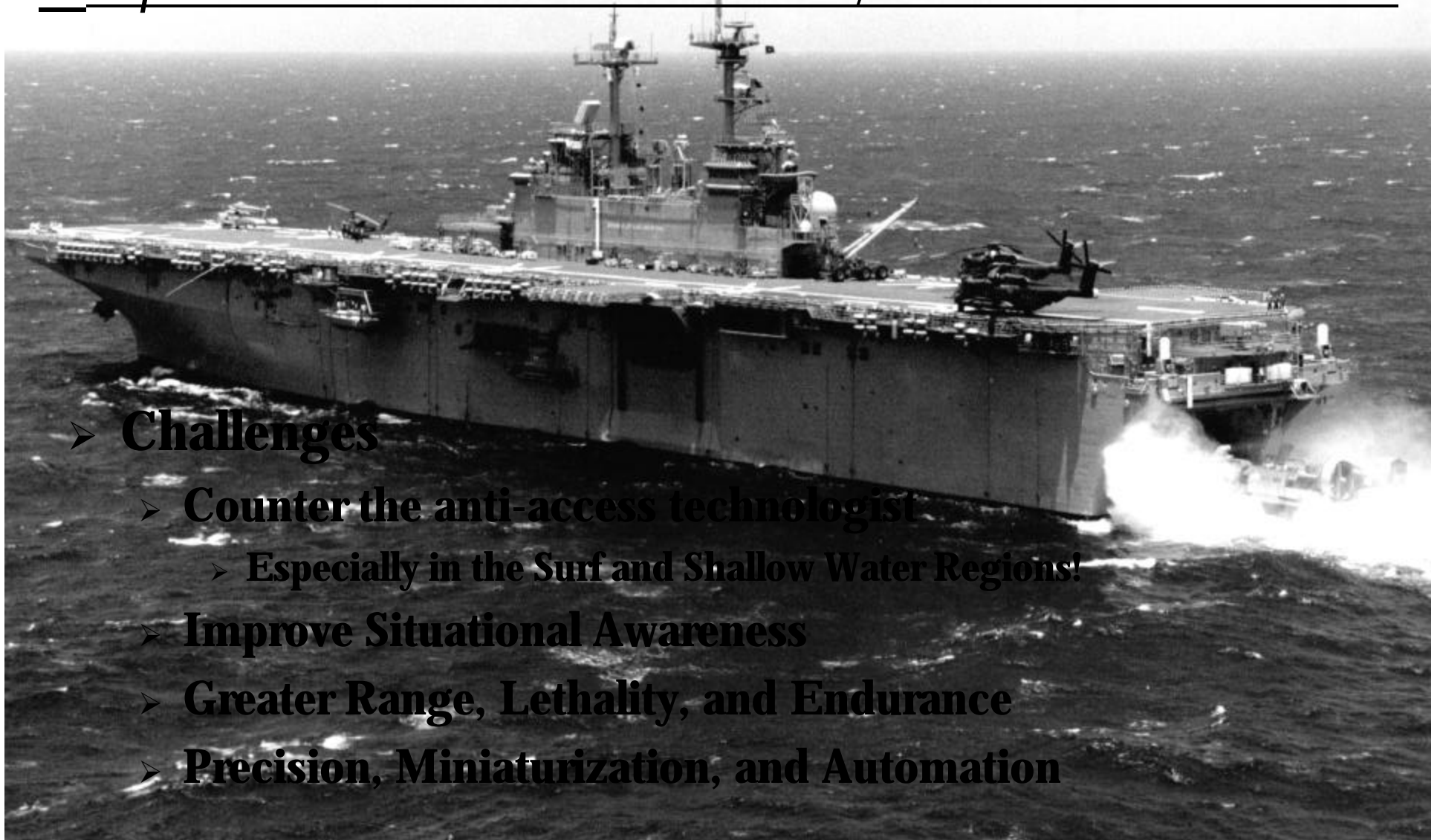
**LPD-17**



**IMPROVING 12 AMPHIBIOUS READY GROUPS**

# *Meeting the Challenge-*

## *Requires Industrial innovation, Dual Use Economies*



### ➤ **Challenges**

- **Counter the anti-access technologist**
  - **Especially in the Surf and Shallow Water Regions!**
- **Improve Situational Awareness**
- **Greater Range, Lethality, and Endurance**
- **Precision, Miniaturization, and Automation**

# ***BOTTOM LINE***

- ***EXPEDITIONARY WARFARE - Leading the Way in the Littorals***
- ***CHALLENGES***
  - ***MINE WARFARE- "In-Stride Speed Bump'" vice "Show Stopper"***
    - ***Organic & Dedicated***
    - ***VSW Zone Solutions critical***
- ***SUSTAINED MODERNIZATION***
  - ***Superset ARG***
  - ***MPF(F)***
  - ***LEVERAGING DUAL USE ECONOMIES***
- ***UAVs***
  - ***Control of Joint, "Low-Orbit Satellites" for the Tactical Commander***
  - ***Executing Full Exploitation of platforms and sensors***

